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AFFEICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,705	12/11/2001	Scott J. Addonizio	1133279-0014	. 7327
7470 WHITE & CAS	7590 01/11/2007 E LLP		EXAMINER	
PATENT DEPARTMENT 1155 AVENUE OF THE AMERICAS			ISABELLA, DAVID J	
NEW YORK, NY 10036			ART UNIT	PAPER NUMBER
			3738	· · · · · · · · · · · · · · · · · · ·
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERÝ MODE	
3 MONTHS		01/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)					
Office Action Summary	10/014,705	ADDONIZIO ET AL.					
Office Action Summary	Examiner	Art Unit					
The SUALIDIO DATE SALE	DAVID J. ISABELLA	3738					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>13 September 2004, 23 June 2005, 09 Sept</u> .							
2a)⊠ This action is FINAL . 2b)☐ This							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-27,29,31-37 and 43-45</u> is/are pending in the application.							
4a) Of the above claim(s) <u>34-37</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-27,29,32 and 33</u> is/are rejected.							
	7) Claim(s) <u>31 and 43-45</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 7/6/2006.	6) Other:						

Response to Amendment

The amendment and response filed July 6, 2006 have been entered. Claims 28,30 and 38-42 have been canceled. Claims 1-27 and 29-37 are currently pending, of which claims 34-37 remain withdrawn from further consideration for being drawn to a non-elected species. Claims 43-45 have been newly added. The claims being considered for further examination on the merits are claims 1-27,29-33 and newly added claims 43-45.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on July 6, 2006 has been considered by the examiner.

Response to Arguments

Applicant's arguments filed 7/6/2006 have been fully considered but they are not persuasive.

While applicant argues that the outstanding rejections fails to meet the limitations of the claims as amended by applicant. However, applicant failed to explain how each reference fails to meet the newly added limitations or alternative, how the new limitations further defines over the applied references. As such, the rejections to the claims are maintained.

Claim Rejections - 35 USC § 102

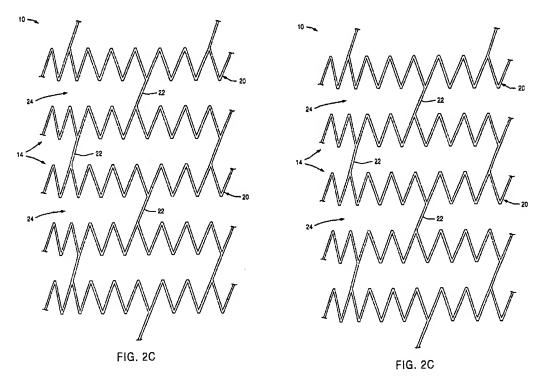
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (USPN 6,270,524).

Kim discloses an expandable stent with all the elements of claims 1 and 10. With respect to claim 1, see Figure 2C below for a stent (10) with a main body (12) including a plurality of expandable helical segments and a plurality of main body cylindrical elements (14) having collinear cylindrical axes, wherein the main body cylindrical elements (14) are adjacent to one another and are attached to one another by the helical segments. Each main body cylindrical element (14) includes a circumference that is substantially identical to that of an adjacent cylindrical element (14), and a plurality of circumferential segments joined together by portions of the helical segments form the cylindrical element (14). The plurality of circumferential segments comprises a majority of the circumference of each cylindrical element (14).

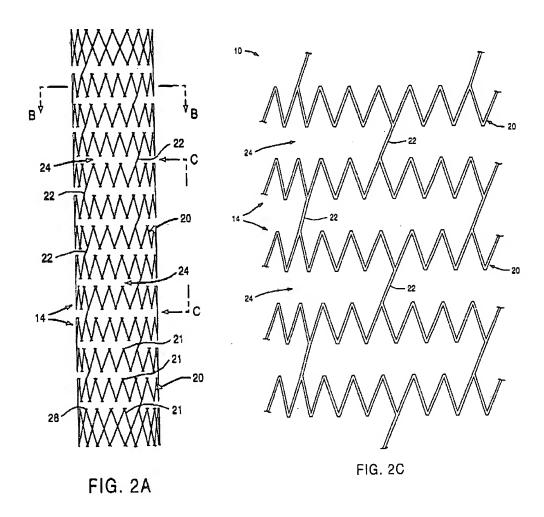


With respect to claim 10, see Figure 2A below for an expandable stent (10) including a first non-helical endzone, a second non-helical endzone, and a generally cylindrically shaped main body (12) having a cylindrical axis, being located between the first and second endzones, and including a plurality of adjacent cylindrical main body elements (14) connected together and having cylindrical axes collinear with the main body cylindrical axis. See Figure 2C below for the main body elements (14) including a plurality of first expandable circumferential segments having a circumferential dimension, and a plurality of second expandable circumferential segment circumferential dimension. Each of the second expandable segments is connected to two first expandable segments. The cylindrical main body elements (14) are joined by connecting together second expandable circumferential segments of adjacent

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Art Unit: 3738

cylindrical main body elements (14) in helical patterns, thereby forming a plurality of generally parallel helixes in the main body (12).



Claim 2, see Figures 2A and 2C for the circumferential segments being comprised of a plurality of segments joined together to form a repeating pattern.

Claim 3, see column 3, line 54 for an alternative embodiment wherein the repeating pattern comprises a square wave form having curved peaks and valleys (U-shaped).

Claims 4 and 5, see Figure 2A for a first and second endzone straddling the main body (12) of the stent (10) and further comprising a plurality of struts (22) connecting each endzone to the main body (12).

Claims 6 and 7, see Figure 2A for the diamond shaped endzones each comprised of two rings of a V-shaped pattern, wherein the rings in each endzone are joined together by a plurality of struts (the struts making up the V-shaped pattern).

Claims 8 and 9, see column 3, line 54 for an alternative embodiment wherein the rings are comprised of a plurality of alternating linear and curved segments (N-shaped pattern), and the slanted linear segments of the N-shaped pattern form an angle greater than zero degrees relative to the cylindrical axis of the cylindrical elements.

Claim 11, see column 8, lines 52-54 and 61-63 for the material of the stent (10) rendering at least a portion of the stent (10) radiopaque.

Claim 12, see Figure 2A for each of the endzones being attached to the main body (12) with a plurality of struts (22).

Claim 13, see columns 7-8, lines 64-33 for the stent (10) being manufactured from a contiguous piece of material.

Claim 14, see column 10, lines 11-13. In an embodiment with only two connectors (22) extending between adjacent cylindrical main body elements (14), there will be two helical segments in the main body (12) that are 180 degrees apart.

Claim 15, see Figure 2A for each endzone comprising a ring formed from a plurality of contiguous segments.

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Claim 16, see column 3, line 54 for an alternative embodiment wherein the contiguous segments comprise linear and curved segments that are joined together to form a repeating N-shaped pattern.

Claim 17, see column 3, line 54 for an alternative embodiment wherein the first expandable circumferential element comprises a plurality of linear and curved segments joined together to form a repeating N-shaped pattern that resembles generally a square wave form having curved peaks and valleys.

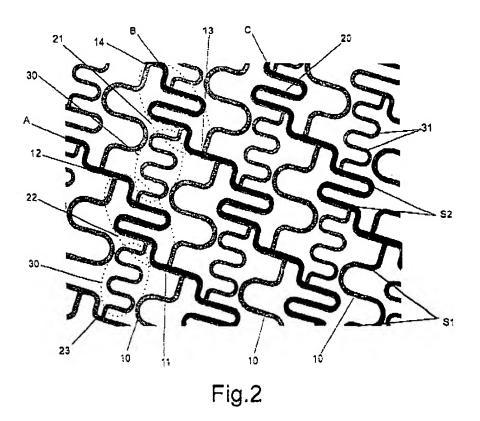
Claim 18, see column 3, line 54 for an alternative embodiment wherein the second expandable element comprises a plurality of linear and curved segments joined together and wherein the slanted linear segments of the N-shaped pattern form an angle relative to the cylindrical axis of the stent that is *approximately* equal to the helical angle of at least one of the helixes in the main body.

Claims 19, 20, 23-27, 29 and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Cottone et al. (USPN 6,432,132).

The applied reference has a common inventor with the instant application.

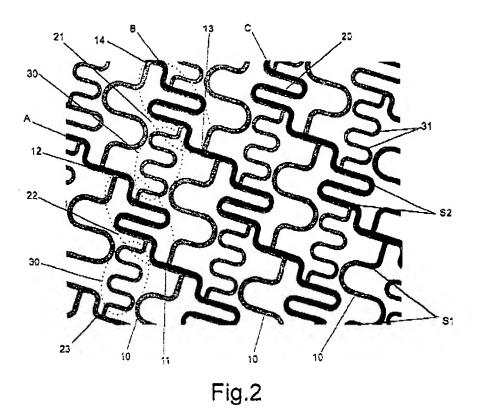
Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Cottone et al. discloses an expandable stent with all the elements of claims 19 and 29. With respect to claim 19, see Figure 1 and Figure 2 below for a stent including a cylindrical axis and a cylindrical main body about the cylindrical axis. The main body includes a plurality of first expandable helical segments having a first pitch, and a plurality of second expandable helical segments having a second pitch that differs in value from the first pitch, wherein the first helical segments cross the second helical segments.



With respect to claim 29, see Figure 1 and Figure 2 below for a stent including a plurality of first expandable segments, a plurality of second expandable segments, and

a plurality of adjacent cylindrical main body elements having collinear cylindrical axes and being formed by connecting first expandable segments with second expandable segments. A plurality of first helical segments having a pitch are formed by connecting first expandable segments from adjacent cylindrical elements with each other, and a plurality of second helical segments having a different pitch from the first helical segments are formed by connecting second expandable segments from adjacent cylindrical elements with each other.



Claim 20, see Figures 1 and 2 for the second pitch having a value that is approximately twice that of the first pitch.

Claim 23, see column 7, lines 48-62 for the first helical segments being comprised of a plurality of circumferential segments joined together to form a helix.

Claim 24, see Figure 2 for the circumferential segments being comprised of a plurality of linear and curved segments joined together.

Claim 25, see Figure 1 for the linear segments lying at an angle between 0-45 degrees with respect to the cylindrical axis of the stent.

Claim 26, see Figure 2 above for the second helical segments being comprised of a plurality of second circumferential elements joined together to form a second helix.

Claim 27, see column 5, line 40 for the material of the stent rendering the stent radiopaque.

Claim 33, see Figure 1 for at least one helical segment forming an angle of approximately 40 degrees relative to the cylindrical axis of the stent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21, 22 and 32 are rejected under 35 U.S.C. 103(a) as being obvious over Cottone et al. ('524) in view of Cottone, Jr. et al. (USPAP 2002/0116044, as cited in last office action).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Cottone et al. ('524) discloses an expandable stent with all the elements of claims 19 and 29, but silent to the additional limitations of a plurality of generally cylindrical shaped endzones having cylindrical axes that are collinear with the main body cylindrical axis, as required by claim 21, wherein the endzones have square outer edges, as required by claim 22, and first and second endzones straddling the main body, as required by claim 32. Cottone, Jr. et al. (USPAP) teaches an expandable stent with cylindrical endzones (81) having square outer edges that are collinear with the main body cylindrical axis and straddle the main body in order for the stent to have

closed ends that are substantially perpendicular to the axis of the stent. See Figures 1 and 7 and paragraph [0037]. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to look to the teachings of Cottone, Jr. et al. (USPAP) to modify the stent of Cottone et al. ('524) by including the endzones as required by claim 21, 22 and 32 in order for the stent to have closed ends that are substantially perpendicular to the axis of the stent.

Allowable Subject Matter

Claims 31, 43,44 and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J. ISABELLA whose telephone number is 571-272-4749. The examiner can normally be reached on MONDAY-FRIDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CORRINE MCDERMOTT can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAVID ISABELLA Primary Examiner Art Unit 3738

DJI 12/9/2006